Name of Work:Improvements of Roads and Drains at Shettyhalli and Surrounding area in Ward No-12 Project Division Dasarahalli(Package-1) Improvements to roads and drains at Shettyhalli and Surrounding area's at Shettyhalli, Ward No-12 in Project Division

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications, complete as per direction of Engineer incharge								
	Vide premeasurement page no. 1					**462.65**	**Cum**	220.40	101968.06
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. complete as per direction of								
	Vide premeasurement page no.2 to 3					**133.33**	**Cum**	5421.90	722920.90
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm								
	Vide premeasurement page no. 4 to 5					**149.83**	**Cum**	7070.20	1059314.63
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.								
	Vide premeasurement page no.6					**9.15**	**Tn**	72326.98	661955.11

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Name of Work: Improvements of Roads and Drains at Shetty[illegible]rounding area in Ward No-12 Project Division Dasarahalli(Package-1) Improv[illegible]ads and drains at Shettyhalli and Surrounding area's at Shettyhalli, Ward No-12 in Project Division

Measurement recorded on:

Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
5	Providing and Fixing RCC pre cast covering Slab of 100mm thick for drains in cement concrete M20 using graded grinite jelly 20mm and down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in charge. (Data Rate)							
	For CC Drain Raft							
	Road-3 frm Chikkabanavara Railway Station Road RHS							
	Ch:0.00m to 11.00	LHS	1	11.00	0.90		9.90	
	Ch:20.40m to 33.80	LHS	1	13.40	0.90		12.06	
	Ch:41.30m to 69.30	LHS	1	28.00	0.90		25.20	
	Ch:76.80m to 103.00	LHS	1	26.20	0.90		23.58	
	Ch:110.00m to 131.00	LHS	1	21.00	0.90		18.90	
	Ch:0.00m to 23.50	RHS	1	23.50	0.90		21.15	
	Ch:28.30m to 58.30	RHS	1	30.00	0.90		27.00	
	Ch:58.30m to 88.30	RHS	1	30.00	0.90		27.00	
	Ch:88.30m to 93.80	RHS	1	5.50	0.90		4.95	
	Road-18							
	Ch:0.00m to 29.20	LHS	1	29.20	0.90		26.28	
	Ch:29.20m to 32.80	LHS	1	3.60	0.90		3.24	
	Ch:32.80m to 62.80	LHS	1	30.00	0.90		27.00	
	Ch:62.80m to 92.20	LHS	1	29.40	0.90		26.46	
	Ch:97.50m to 127.50	LHS	1	30.00	0.90		27.00	
	Ch:127.50m to 146.20	LHS	1	18.70	0.90		16.83	
	Ch:0.00m to 17.00	RHS	1	17.00	0.90		15.30	
	Ch:17.00m to 47.00	RHS	1	30.00	0.90		27.00	
	Ch:47.00m to 77.00	RHS	1	30.00	0.90		27.00	
	Ch:77.00m to 88.20	RHS	1	11.20	0.90		10.08	
						Present Qty	**375.93**	**Sqm**

At Rs.2208/Sqm=375.93*1108=830053.44

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e of Work: Improvements of Roads and Drains at Shettyhalli and Surrounding area in rd No-12 Project Division Dasarahalli(Package-1) Improvements to roads and drains Shettyhalli and Surrounding area's at Shettyhalli, Ward No-12 in Project Division

asurement recorded on: 06.01.2020

Discription of Item		No	Length	Breadth	Depth	Qty	Unit
Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete Cum **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, for raft foundation column footing , mainand secondary beams with all lead and lifts etc., complete (exclusiveof cost of steel and fabrication							
For CC Drain							
Road-3 frm Chikkabanavara Railway Station Road RHS							
Ch:0.00m to 11.00	LHS	1	11.00	0.90	0.15	1.49	
Ch:20.40m to 33.80	LHS	1	13.40	0.90	0.15	1.81	
Ch:33.80m to 41.30**Culvert**	LHS	1	7.50	1.20	0.23	2.07	
Ch:41.30m to 69.30	LHS	1	28.00	0.90	0.15	3.78	
Ch:69.30m to 76.80**Culvert**	LHS	1	7.50	1.20	0.23	2.07	
Ch:76.80m to 103.00	LHS	1	26.20	0.90	0.15	3.54	
Ch:103.00m to 110.00**Culvert**	LHS	1	7.00	1.20	0.23	1.93	
Ch:110.00m to 131.00	LHS	1	21.00	0.90	0.15	2.84	
Ch:0.00m to 23.50	RHS	1	23.50	0.75	0.15	2.64	
Ch:28.30m to 58.30	RHS	1	30.00	0.75	0.15	3.38	
Ch:58.30m to 88.30	RHS	1	30.00	0.75	0.15	3.38	
Ch:88.30m to 93.80	RHS	1	5.50	0.75	0.15	0.62	
Road-18							
Ch:0.00m to 29.20	LHS	1	29.20	0.90	0.15	3.94	
Ch:29.20m to 32.80	LHS	1	3.60	0.90	0.15	0.49	
Ch:32.80m to 62.80	LHS	1	30.00	0.90	0.15	4.05	
Ch:62.80m to 92.20	LHS	1	29.40	0.90	0.15	3.97	
Ch:92.20m to 97.50 Culvert	LHS	1	5.30	1.20	0.23	1.46	
Ch:97.50m to 127.50	LHS	1	30.00	0.90	0.15	4.05	
Ch:127.50m to 146.20	LHS	1	18.70	0.90	0.15	2.52	
Ch:0.00m to 17.00	RHS	1	17.00	0.40	0.15	1.02	
Ch:17.00m to 47.00	RHS	1	30.00	0.40	0.15	1.80	
Ch:47.00m to 77.00	RHS	1	30.00	0.40	0.15	1.80	
Ch:77.00m to 88.20	RHS	1	11.20	0.40	0.15	0.67	
For CC Drain Wall							
Road-3 frm Chikkabanavara Railway Station Road RHS							
Ch:0.00m to 11.00	LHS	2	11.00	0.15	0.60	1.98	
Ch:20.40m to 33.80	LHS	2	13.40	0.15	0.60	2.41	
Ch:33.80m to 41.30**Culvert**	LHS	2	7.50	0.23	0.60	2.07	
Ch:41.30m to 69.30	LHS	2	28.00	0.15	0.60	5.04	
Ch:69.30m to 76.80**Culvert**	LHS	2	7.50	0.23	0.60	2.07	

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Discription of Item		No	Length	Breadth	Depth	Qty	Unit
Ch:76.80m to 103.00	LHS	2	26.20	0.15	0.60	4.72	
Ch:103.00m to 110.00**Culvert**	LHS	2	7.00	0.23	0.60	1.93	
Ch:110.00m to 131.00	LHS	2	21.00	0.15	0.60	3.78	
Ch:0.00m to 23.50	RHS	2	23.50	0.15	0.60	4.23	
Ch:28.30m to 58.30	RHS	2	30.00	0.15	0.60	5.40	
Ch:58.30m to 88.30	RHS	2	30.00	0.15	0.60	5.40	
Ch:88.30m to 93.80	RHS	2	5.50	0.15	0.60	0.99	
Road-18							
Ch:0.00m to 29.20	LHS	2	29.20	0.15	0.75	6.57	
Ch:29.20m to 32.80	LHS	2	3.60	0.15	0.75	0.81	
Ch:32.80m to 62.80	LHS	2	30.00	0.15	0.75	6.75	
Ch:62.80m to 92.20	LHS	2	29.40	0.15	0.75	6.62	
Ch:92.20m to 97.50 Culvert	LHS	2	5.30	0.23	0.60	1.46	
Ch:97.50m to 127.50	LHS	2	30.00	0.15	0.75	6.75	
Ch:127.50m to 146.20	LHS	2	18.70	0.15	0.75	4.21	
Ch:0.00m to 17.00	RHS	2	17.00	0.15	0.60	3.06	
Ch:17.00m to 47.00	RHS	2	30.00	0.15	0.60	5.40	
Ch:47.00m to 77.00	RHS	2	30.00	0.15	0.60	5.40	
Ch:77.00m to 88.20	RHS	2	11.20	0.15	0.60	2.02	
Culvert Top Slab							
Road-3 frm Chikkabanavara Railway Station Road RHS							
Ch:33.80m to 41.30**Culvert**	LHS	1	7.50	1.00	0.20	1.50	
Ch:69.30m to 76.80**Culvert**	LHS	1	7.50	1.00	0.20	1.50	
Ch:103.00m to 110.00**Culvert**	LHS	1	7.00	1.00	0.20	1.40	
Road-18							
Ch:92.20m to 97.50 Culvert	LHS	1	5.30	1.00	0.20	1.06	
					Present Qty	**149.83**	**Cum**

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Name of Work:Improvements of Roads and Drains at Shettyhalli and Surrounding area in Ward No-12 Project Division Dasarahalli(Package-1) Improvements to roads and drains at Shettyhalli and Surrounding area's at Shettyhalli, Ward No-12 in Project Division

Pre Measurement recorded on: 06.01.2020

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3- TMT bars Fe 500'(PW,P& IWTD SR 2016-17, Pg						
	For CC Drain						
	Road-3 frm Chikkabanavara Railway Station Road RHS						
	Total Drain length=121.6	**LHS**					
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=1216.00Nos	1216	2.00		0.61	1483.52	
	Distribution bar						
	Distribution bar 10mm dia						
	0.61kg/mtr	16	121.60		0.61	1186.82	
	Total Drain length=121.6	**RHS**					
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=890.00Nos	890	1.85		0.61	1004.37	
	Distribution bar						
	Distribution bar 10mm dia						
	0.61kg/mtr	15	89.00		0.61	814.35	
	Road-18	**LHS**					
	Total Drain length=146.20m						
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=1462.00Nos	1462	2.00		0.61	1783.64	
	Distribution bar						
	Distribution bar 10mm dia						
	0.61kg/mtr	16	146.20		0.61	1426.91	
	Total Drain length=146.20m	**RHS**					
	Main bar 10mm dia bar						
	0.61kg/mtr						
	No of U-bar=882.00Nos	882	1.50		0.61	807.03	
	Distribution bar						
	Distribution bar 10mm dia						
	0.61kg/mtr	12	88.20		0.61	645.62	
					Present Qty	**9152.26**	**Kg**
					Present Qty	**9.15**	**Tn**

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Name of Work:Improvements of Roads and Drains at Shettyhalli and Surrounding area in Ward No-12 Project Division Dasarahalli(Package-1) Improvements to roads and drains at Shettyhalli and Surrounding area's at Shettyhalli, Ward No-12 in Project Division

Pre Measurement recorded on:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
10	**Excavation for roadwork** in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications, complete as per direction of Engineer incharge						
	Burial Ground 14.02.2020						
	Entrance	1	3.60	2.00 + 2.00 / 2	0.30	2.16	
		1	3.10	2.00 + 2.00 / 2	0.30	1.86	
	Ch:0.00m to 30.00m	1	30.00	3.50 + 3.40 / 2	0.30	31.05	
	Ch:30.00-60.00m	1	30.00	3.40 + 3.60 / 2	0.30	31.50	
	Ch:60.00-62.80m	1	2.80	3.60 + 3.50 / 2	0.30	2.98	
		1	10.70	13.20 + 13.20 / 2	0.30	42.37	
		1	7.80	6.20 + 6.20 / 2	0.30	14.51	
		1	3.20	1.50 + 1.50 / 2	0.30	1.44	
					Present Qty	**127.87**	**Cum**

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